

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
19 October 2000 (19.10.2000)

PCT

(10) International Publication Number  
WO 00/61081 A3

(51) International Patent Classification<sup>7</sup>: A61K 7/32.  
7/34, 7/38, 7/48

Merseyside CH63 3JW (GB). HOPKINSON, Andrew:  
Unilever Research Port Sunlight, Quarry Road East, Be-  
bington, Wirral, Merseyside CH63 3JW (GB).

(21) International Application Number: PCT/GB00/01236

(22) International Filing Date: 31 March 2000 (31.03.2000)

(74) Agent: PEARCE, Timothy; UNILEVER PLC., Colworth  
House, Sharnbrook, Bedford, MK44 1LQ (GB).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
9908212.5 12 April 1999 (12.04.1999) GB

(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ,  
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,  
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,  
UG, UZ, VN, YU, ZA, ZW.

(71) Applicant (*for AE, AU, BB, CA, CY, DM, GB, GD, GH,  
GM, IE, IL, KE, LC, LK, LS, MN, MW, NZ, SD, SG, SL,  
SZ, TT, UG, ZA, ZW only*): UNILEVER PLC (GB/GB);  
Unilever House, Blackfriars, London EC4P 4BQ (GB).

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent  
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent  
(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,  
MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except AE, AU, BB,  
CA, CY, DM, GB, GD, GH, GM, IE, IL, IN, KE, LC, LK,  
LS, MN, MW, NZ, SD, SG, SL, SZ, TT, UG, ZA, ZW*):  
UNILEVER N.V. (NL/NL); Weena 455, NL-3013 AL  
Rotterdam (NL).

Published:  
— with international search report

(71) Applicant (*for IN only*): HINDUSTAN LEVER LIM-  
ITED (IN/IN); Hindustan Lever House, 165/166 Backbay  
Reclamation, Mumbai 400 020, Maharashtra (IN).

(88) Date of publication of the international search report:  
10 January 2002

(72) Inventors: FRANKLIN, Kevin, Ronald; Unilever Re-  
search Port Sunlight, Quarry Road East, Bebington, Wirral.

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*



WO 00/61081 A3

(54) Title: STRUCTURED COSMETIC COMPOSITIONS

(57) Abstract: A cosmetic composition is a structured emulsion of a continuous phase containing water-immiscible liquid carrier plus a structurant, and a disperse phase which is a solution of antiperspirant active in a more polar, probably aqueous, solvent. The structurant is a material which forms a network of fibres in the continuous phase, thereby gelling it. The structurant has an enthalpy of gelation in the carrier liquid or a test liquid with a magnitude of at least 30 kJ/mole. This minimum enthalpy of gelation facilitates processing at conveniently accessible temperatures and promotes stability.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/G8 00/01236

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K7/32 A61K7/34 A61K7/38 A61K7/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, EMBASE, MEOLINE, 810SIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US S 635 165 A (PANITCH MAXIMO M) 3 June 1997 (1997-06-03)</p> <p>abstract column 1, line 6 - line 22 column 3, line 55 - line 60 column 4, line 40 - column 5, line 38 column 6, line 6 - column 8, line 14 column 8, line 50 - line 61 column 9, line 40 - column 11, line 15 column 11, line 38 - line 55 column 13, line 38 - column 14, line 24 claims</p> <p>---</p> <p>-/--</p>	<p>1,2, 7-17,20, 23-25</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"S" document member of the same patent family

Date of the actual completion of the international search

28 July 2000

Date of mailing of the international search report

04 12 00

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentsaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl  
Fax: (+31-70) 340-3016

Authorized officer

Cielen, E

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB 00/D1236

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 265 878 A (KEIL JOSEPH W) 5 May 1981 (1981-05-05) cited in the application</p> <p>abstract column 1, line 66 -column 3, line 45 column 4, line 25 - line 53 column 7, line 21 - line 40 column 7, line 52 -column 8, line 12 column 8, line 61 -column 9, line 5 column 9, line 57 -column 10, line 26 claims</p> <p>---</p> <p>A NOBDHIRD IDE, TAKESHI FUKUDA AND TAKEAKI MIYAMOTO: "GELATION OF FULLY ACYLATED CELLULOSE IN ALKANE SOLUTION" BULL. CHEM. SOC. JPN, vol. 68, 1995, pages 3423-3428, XP002127501 the whole document</p> <p>---</p> <p>A TAKADA A. ET AL.: "DISCOTIC COLUMNAR LIQUID CRYSTALS IN OLIGOSACCHARIDE DERIVATIVES III. ANOMERIC EFFECTS ON THE THERMO-MESOMORPHIC PROPERTIES OF CELLULOSE OCTA-ALKANATES" LIQUID CRYSTALS, vol. 19, no. 4, 1995, pages 441-448, XP000545756 the whole document</p> <p>---</p> <p>A TERECH PIERRE AND WEISS RICHARD G: "Low Molecular Mass Gelators of Organic Liquids and the Properties of Their Gels" CHEM. REV., vol. 97, 1997, pages 3133-3159, XP002127859 cited in the application page 3154, line 8 - line 17 page 3156, line 53 - line 55 -----</p>	<p>1,6, 9-11, 13-16, 20,23-25</p>

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 00/01236

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-20, 23-25 (see annexed sheet)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-20, 23-25

1.1. Claims: 1-20,23,24

A cosmetic composition as claimed and the process for its preparation.

1.2. Claims: 1-20,25

A cosmetic composition as claimed and a method for preventing or reducing perspiration on human skin by topically applying such a composition.

2. Claims: 21,22

An antiperspirant product comprising a dispensing container.

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/01236

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5635165	A	03-06-1997	AU 725120 82	05-10-2000
			AU 6971996 A	17-04-1997
			BR 9610642 A	18-05-1999
			CA 2232994 A1	03-04-1997
			CN 1202816 A	23-12-1998
			EP 0852487 A1	15-07-1998
			HU 9901475 A2	30-08-1999
			JP 11514350 T	07-12-1999
			PL 325960 A1	17-08-1998
			WO 9711678 A1	03-04-1997
			ZA 9607452 A	10-03-1997
US 4265878	A	05-05-1981	BE 879717 A1	30-04-1980
			BR 7907210 A	27-01-1981
			CA 1125175 A1	08-06-1982
			DE 2940908 A1	11-12-1980
			FR 2458284 A1	02-01-1981
			GB 2050163 A ,8	07-01-1981
			IT 1126347 8	21-05-1986
			JP 1139913 C	24-03-1983
			JP 55164618 A	22-12-1980
			JP 57028682 8	18-06-1982
			NL 7907374 A	09-12-1980